



Immunization Practices in the Healthy Families Program



**California Managed Risk Medical Insurance Board
Benefits and Quality Monitoring Division
April 2008**



California Managed Risk Medical Insurance Board

Healthy Families Program (HFP)

*MRMIB provides and promotes access to affordable coverage
for comprehensive, high quality, cost effective health care
services to improve the health of Californians.*

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Acknowledgements

MRMIB would like to acknowledge the following health plans for completing the Immunization Questionnaire.

- Alameda Alliance for Health
- Anthem Blue Cross,
 formally known as Blue Cross of California
- Blue Shield of California
- CalOptima Kids
- Care 1st Health Plan
- CenCal Health,
 formally known as Santa Barbara Regional Health Authority
- Central Coast Alliance for Health
- Community Health Group
- Community Health Plan
- Contra Costa Health Plan
- Health Net of California
- Health Net Life
- Health Plan of San Joaquin
- Health Plan of San Mateo
- Inland Empire Health Plan
- Kaiser Permanente
- Kern Family Health Care
- L.A. Care Health Plan
- Molina Healthcare of California
- San Francisco Health Plan
- Santa Clara Family Health Plan
- Ventura County Health Care Plan

Background

Immunizations protect children against infectious diseases. Vaccines are the first line of defense against major diseases (i.e. polio, measles, mumps, rubella, influenza, tetanus, diphtheria, pertussis, etc.). Children who do not receive immunizations have an increased risk of acquiring chronic and often crippling diseases, and sometimes, even death.

Pediatricians urge parents to have their children obtain immunizations recommended by the Advisory Committee on Immunization Practices (ACIP)¹ (see [Attachment 2](#) in this report for the 2008 Recommended Childhood Immunization Schedule). State laws require children to obtain certain vaccinations to be enrolled in public school. Yet, some children still miss one or more recommended immunizations. This may be due to inconvenience, missed appointments or forgetting when the next shot is due. It may also result from parents misunderstanding the risks of not immunizing.

One of the goals of the Managed Risk Medical Insurance Board (MRMIB) is to ensure every child enrolled in the Healthy Families Program (HFP) receives all ACIP recommended immunizations. In June 2006, ACIP voted to recommend the Quadrivalent Human Papillomavirus (HPV)² vaccine for females aged 9-26 years. The vaccine was developed to prevent cervical cancer and other diseases in females caused by certain types of HPV. Hearing this, HFP stakeholders who work in the area of prevention and some HFP plans contacted MRMIB regarding coverage of this vaccine.

To ascertain how HFP plans ensure children receive recommended immunizations, the MRMIB Benefits and Quality Monitoring Division sent an electronic questionnaire to each health plan in July 2007. The purpose of the questionnaire was to obtain information regarding how plans remind members of immunizations and how they collect and use immunization data.

This report summarizes the HFP health plans' responses to the immunization questionnaire, identifies best practices, and compares HFP health plan HEDIS®³ immunization rates to immunization rates reported by Medi-Cal Managed Care and commercial plans.

¹ Advisory Committee on Immunization Practices (ACIP) consists of 15 experts in fields associated with immunization who have been selected by the Secretary of the U.S. Department of Health and Human Services to provide advice and guidance to the Secretary, the Assistant Secretary for Health, and the Centers for Disease Control and Prevention (CDC) on the control of vaccine-preventable diseases.

² Human Papillomavirus (HPV) is a diverse group of DNA-based viruses that infect the skin and mucous membranes of humans and a variety of animals. Over 100 different human papillomavirus (HPV) types have been identified.

³ Healthcare Effectiveness Data and Information Set (HEDIS) is a registered trademark of the National Committee for Quality Assurance (NCQA).

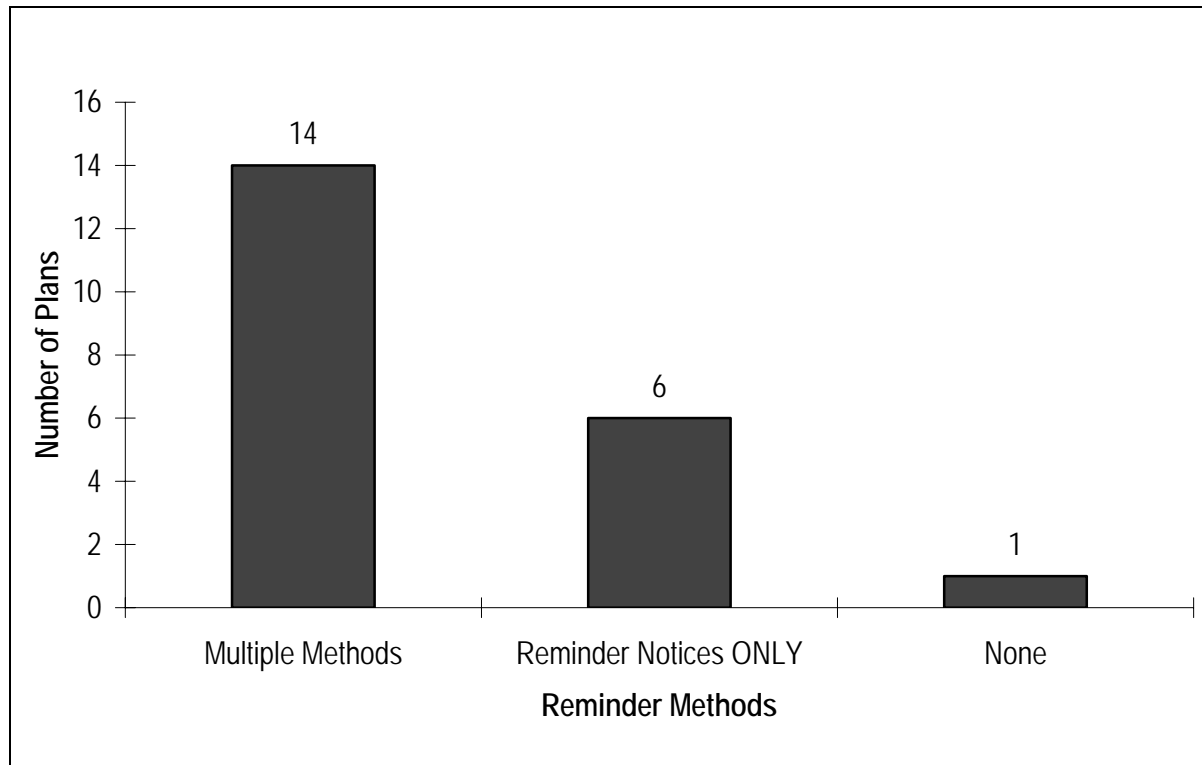
HFP Health Plans Immunization Responses

The Healthy Families Program participating plans include statewide Health Maintenance Organizations (HMOs) and Exclusive Provider Organizations (EPOs), as well as locally organized plans such as Local Initiatives and County Organized Health Systems. A list of the HFP plans, their service areas by county and their enrollment numbers are provided in Attachment 1 of this report.

The charts presented on the following pages show the various ways in which plans inform their members and network healthcare providers about the importance of immunization and how the plans monitor the provision of immunizations. Most HFP plans have systems in place to ensure members are reminded of and encouraged to receive recommended immunizations. A small number of plans rely solely on providers to distribute immunization education to members. All of the plans report HEDIS data on immunization rates that allow MRMIB to monitor plan performance and review the effectiveness of plan quality improvement strategies.

Chart #1: Immunization Reminder

What is the plan's system to remind HFP members of their immunization due dates?

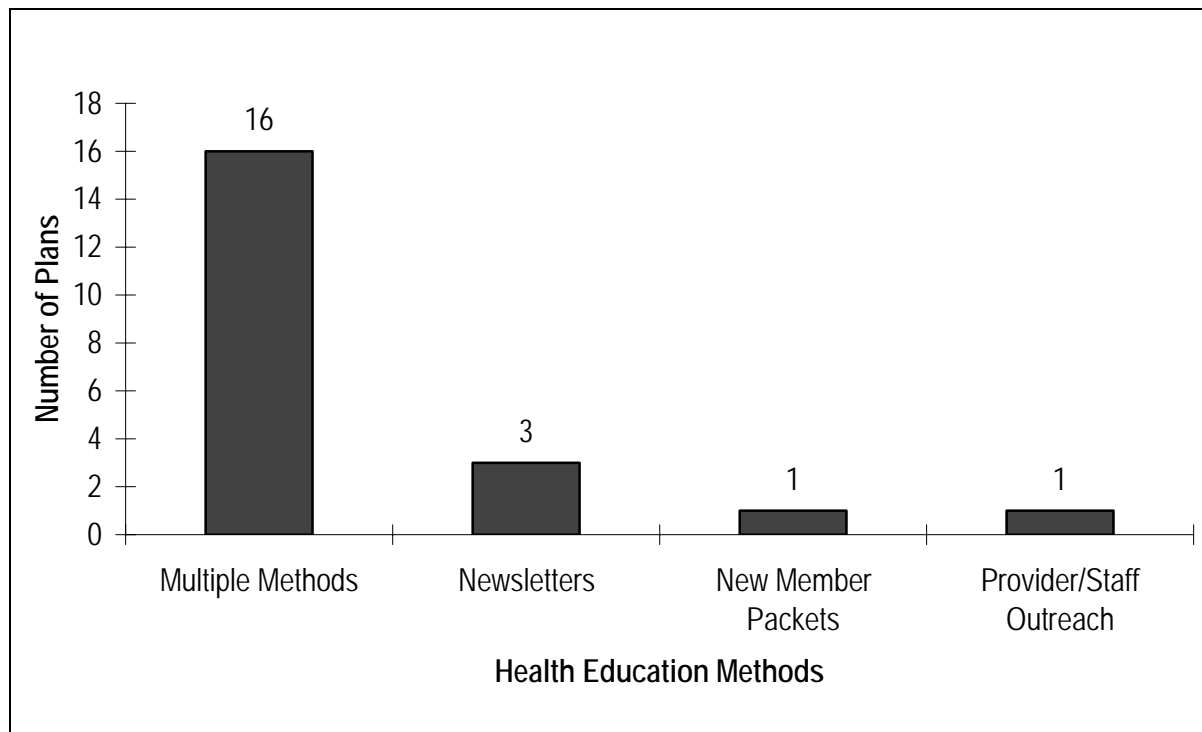


Multiple Methods (reminder notices, outreach, phone calls, and plan materials*)	Reminder Notices ONLY	None
<ul style="list-style-type: none"> ▪ Blue Cross of California HMO & EPO ▪ Blue Shield of California HMO & EPO ▪ CalOptima Kids ▪ Care 1st Health Plan ▪ Central Coast Alliance Health Plan ▪ Community Health Group ▪ Health Net HMO & EPO ▪ Health Plan of San Joaquin ▪ Health Plan of San Mateo ▪ Kern Family Health Care ▪ L.A. Care Health Plan ▪ San Francisco Health Plan ▪ Santa Clara Family Health Plan ▪ Ventura County Health Care Plan 	<ul style="list-style-type: none"> ▪ Alameda Alliance for Health ▪ Community Health Plan ▪ Contra Costa Health Plan ▪ Inland Empire Health Plan ▪ Kaiser Permanente North & South ▪ Molina Healthcare 	<ul style="list-style-type: none"> ▪ CenCal Health

*Plan materials consist of preventive health guidelines, evidence of coverage booklet, handbooks, brochures, newsletters, etc.

Chart #2: Health Education – Immunization

How does the plan distribute immunization health education to HFP members?

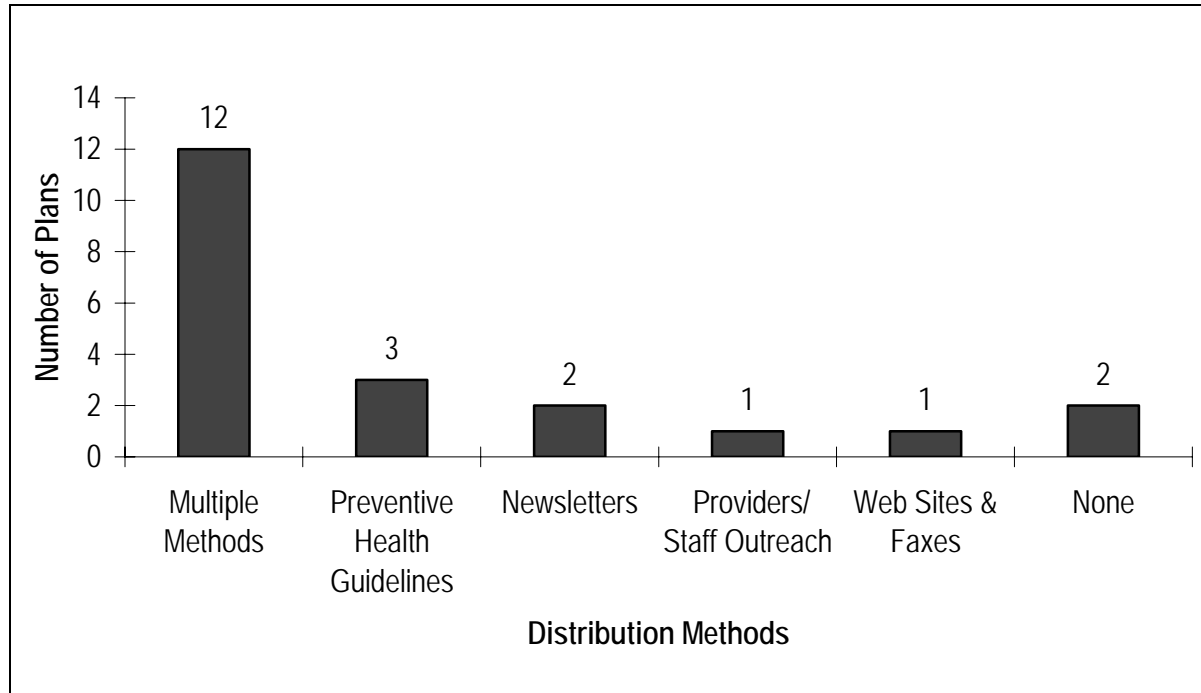


Multiple Methods (web sites, phone calls, plan materials*, etc.)	Newsletters	New Member Packets	Providers/Staff Outreach
<ul style="list-style-type: none"> Blue Cross of California HMO & EPO Blue Shield of California HMO & EPO CalOptima Kids Care 1st Health Plan CenCal Health Central Coast Alliance Health Plan Community Health Group Community Health Plan Contra Costa Health Plan Health Net HMO & EPO Health Plan of San Joaquin Health Plan of San Mateo Inland Empire Health Plan Kaiser Permanente North & South Kern Family Health Care Molina Healthcare 	<ul style="list-style-type: none"> Alameda Alliance for Health San Francisco Health Plan Santa Clara Family Health Plan 	<ul style="list-style-type: none"> Ventura County Health Care Plan 	<ul style="list-style-type: none"> L.A. Care Health Plan

*Plan materials consist of preventive health guidelines, evidence of coverage booklet, handbooks, brochures, newsletters, etc.

Chart #3: Human Papillomavirus (HPV) Information Distribution

How does the plan distribute information regarding the new HPV vaccine to HFP members?

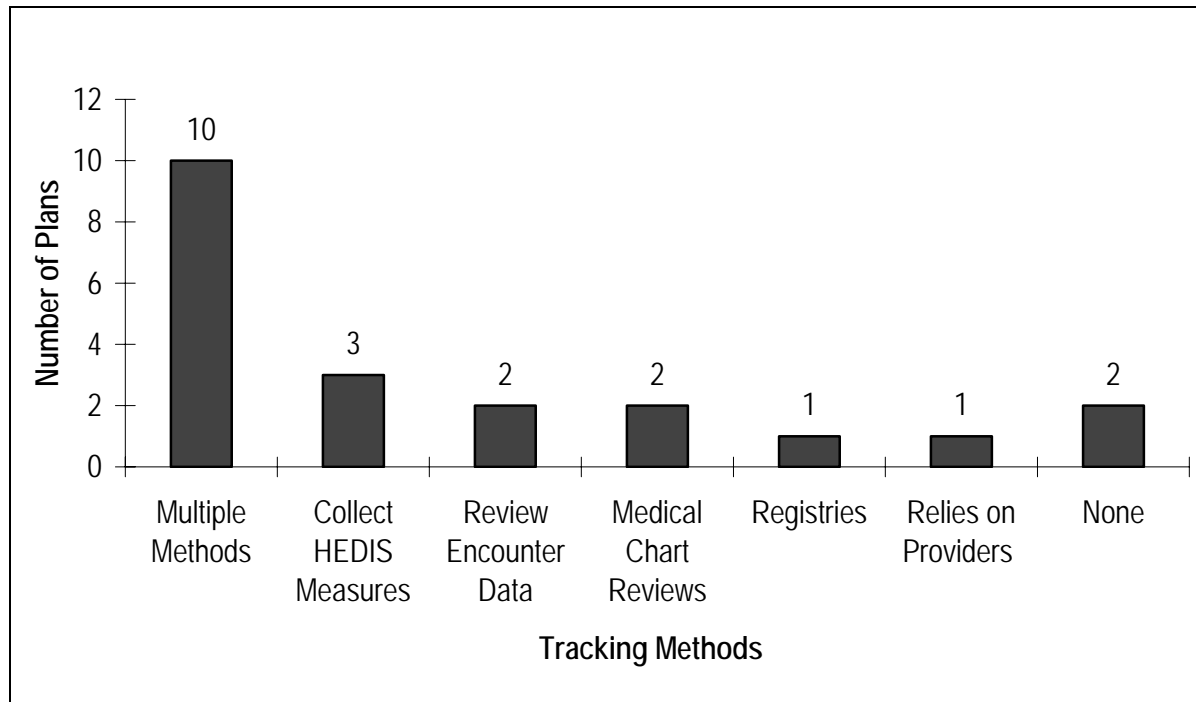


Multiple Methods (plan materials*, outreach, and web sites)	Preventive Health Guidelines	Newsletters	Providers/Staff Outreach	Web Sites and Faxes to Providers	None
<ul style="list-style-type: none"> Blue Cross of California HMO & EPO Care 1st Health Plan CenCal Health Central Coast Alliance Health Plan Community Health Group Community Health Plan Contra Costa Health Plan Health Plan of San Joaquin Health Plan of San Mateo Kaiser Permanente North & South L.A. Care Health Plan Ventura County Health Care Plan 	<ul style="list-style-type: none"> Alameda Alliance for Health Blue Shield of California HMO & EPO Inland Empire Health Plan 	<ul style="list-style-type: none"> Health Net HMO & EPO Santa Clara Family Health Plan 	<ul style="list-style-type: none"> CalOptima Kids 	<ul style="list-style-type: none"> Kern Family Health Care 	<ul style="list-style-type: none"> Molina Healthcare San Francisco Health Plan

*Plan materials consist of preventive health guidelines, evidence of coverage booklet, handbooks, brochures, newsletters, etc.

Chart #4: Immunization Tracking

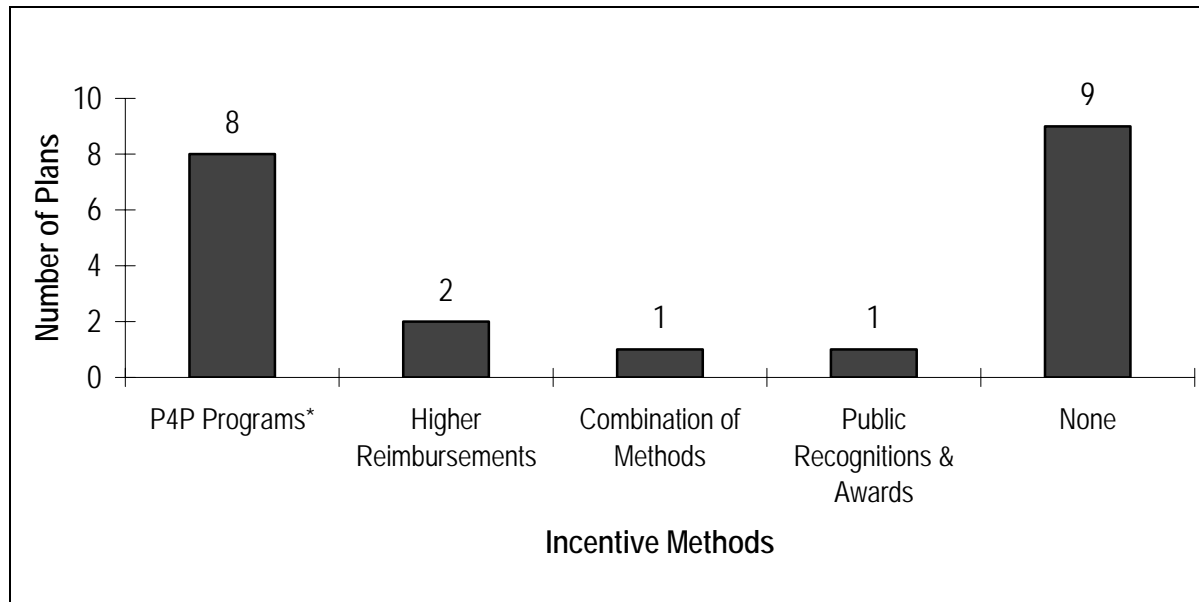
How does the plan ensure that all recommended immunizations are provided to HFP members up to age 19?



Multiple Methods (HEDIS, Encounter Data, Registries)	<ul style="list-style-type: none"> Alameda Alliance for Health Blue Cross of California HMO & EPO CalOptima Kids Care 1st Health Plan Central Coast Alliance Health Plan Community Health Group Contra Costa Health Plan Health Plan of San Mateo Molina Healthcare Santa Clara Family Health Plan
Collect HEDIS Measures	<ul style="list-style-type: none"> Blue Shield of California HMO & EPO Health Plan of San Joaquin Ventura County Health Care Plan
Review Encounter Data	<ul style="list-style-type: none"> Community Health Plan Kaiser Permanente North & South
Medical Chart Review	<ul style="list-style-type: none"> Kern Family Health Care L.A. Care Health Plan
Relies on Providers	<ul style="list-style-type: none"> Health Net HMO & EPO
Registries	<ul style="list-style-type: none"> Inland Empire Health Plan
None	<ul style="list-style-type: none"> CenCal Health San Francisco Health Plan

Chart #5: Immunization Incentives

What incentives, if any, does the plan provide to encourage providers to increase their immunization rates?



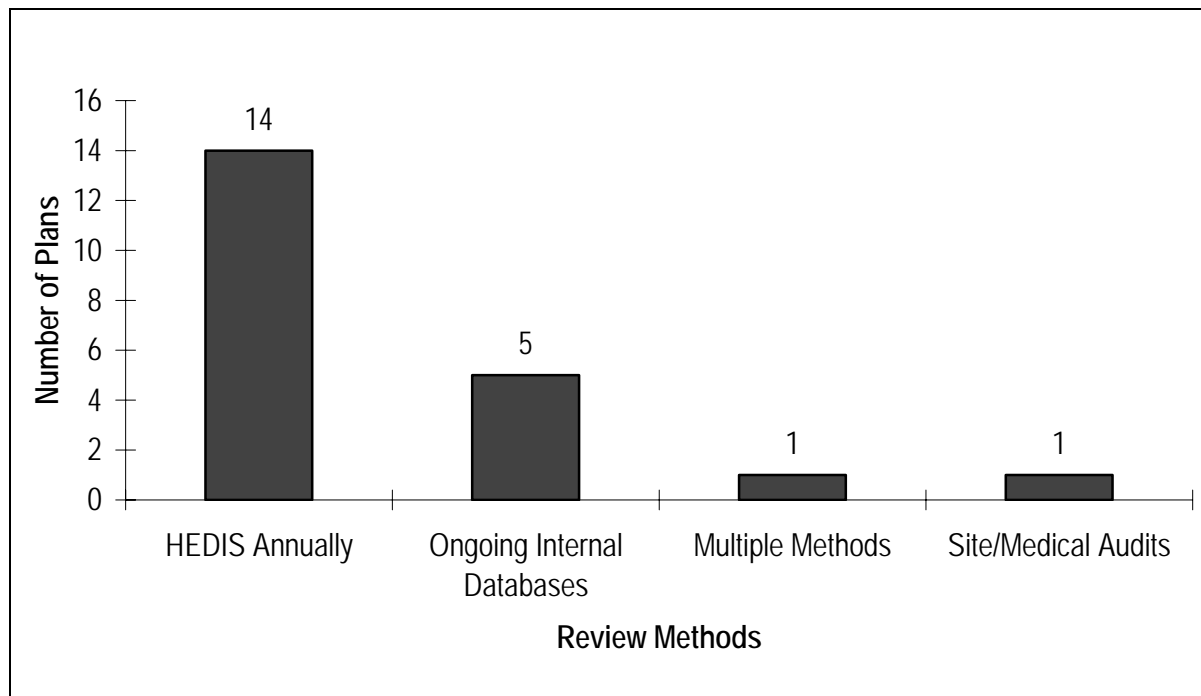
NOTE: The HFP health plan contracts do not currently require plans to provide incentives to increase their immunization rates.

Pay for Performance (P4P) Programs*	<ul style="list-style-type: none"> Blue Shield of California HMO & EPO Community Health Group Community Health Plan Health Plan of San Joaquin Inland Empire Health Plan Kaiser Permanente North & South Kern Family Health Care L.A. Care Health Plan
Higher Reimbursements	<ul style="list-style-type: none"> CalOptima Kids Santa Clara Family Health Plan
Combination of Methods (P4P Programs & Higher Reimbursements)	<ul style="list-style-type: none"> Alameda Alliance for Health
Public Recognitions/Awards	<ul style="list-style-type: none"> Central Coast Alliance Health Plan
None	<ul style="list-style-type: none"> Blue Cross of California HMO & EPO Care 1st Health Plan CenCal Health Contra Costa Health Plan Health Net HMO & EPO Health Plan of San Mateo Molina Healthcare San Francisco Health Plan Ventura County Health Care Plan

*Plans did not provide specific details about their Pay for Performance Programs (P4P).

Chart #6: Immunization Record Review

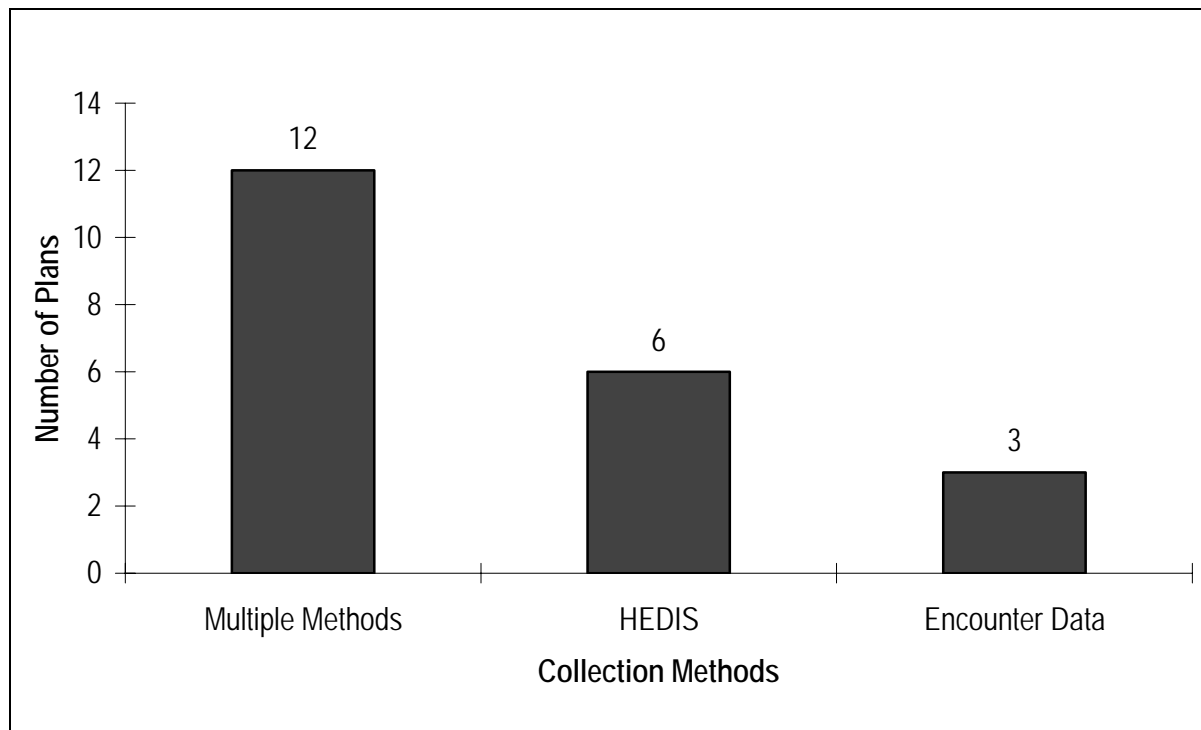
How often does the plan review a member's immunization record?



HEDIS Annually	Ongoing Internal Databases	Multiple Methods (HEDIS and Internal Databases)	Site/Medical Audits
<ul style="list-style-type: none"> Alameda Alliance for Health Blue Cross of California HMO & EPO Blue Shield of California HMO & EPO CenCal Health Central Coast Alliance Health Plan Community Health Group Contra Costa Health Plan Health Net HMO & EPO Health Plan of San Joaquin Health Plan of San Mateo Kern Family Health Care L.A. Care Health Plan Santa Clara Family Health Plan Ventura County Health Care Plan 	<ul style="list-style-type: none"> Care 1st Health Plan Community Health Plan Kaiser Permanente North & South Molina Healthcare San Francisco Health Plan 	<ul style="list-style-type: none"> CalOptima Kids 	<ul style="list-style-type: none"> Inland Empire Health Plan

Chart #7: Immunization Data Collection

What method does the plan use to collect immunization data?



Multiple Methods (HEDIS, Encounter Data, Registries)	HEDIS	Encounter Data
<ul style="list-style-type: none"> Alameda Alliance for Health Blue Cross of California HMO & EPO CalOptima Kids Community Health Group Contra Costa Health Plan Health Plan of San Mateo Inland Empire Health Plan Kaiser Permanente North & South L.A. Care Health Plan San Francisco Health Plan Santa Clara Family Health Plan Ventura County Health Care Plan 	<ul style="list-style-type: none"> Blue Shield of California HMO & EPO CenCal Health Health Net HMO & EPO Health Plan of San Joaquin Kern Family Health Care Molina Healthcare 	<ul style="list-style-type: none"> Care 1st Health Plan Central Coast Alliance Health Plan Community Health Plan

HEDIS Combination #2 Immunization Rates

Healthcare Effectiveness Data and Information Set (HEDIS)

The National Committee for Quality Assurance (NCQA) is a non-profit organization dedicated to improving health care quality. NCQA develops quality standards and performance measures for health care entities. The Healthcare Effectiveness Data and Information Set (HEDIS®) is a set of standardized performance measures that are designed to provide reliable information, which allows the public to compare plan performance among different managed care plans. HEDIS measures address a broad range of important health issues including Childhood and Adolescent Immunization Status. MRMIB asks HFP plans to report seven HEDIS measures, including the HEDIS Combination #2 Measure, which includes the following six vaccinations:

1. Diphtheria, Tetanus, Pertussis (DTap, 4 doses)
2. Inactivated Poliovirus (IPV, 3 doses)
3. Measles, Mumps, Rubella (MMR, 1 dose)
4. Haemophilus influenzae type b (Hib, 3 doses)
5. Hepatitis B (HepB, 3 doses)
6. Varicella - chickenpox (VZV, 1 dose)

The immunization measure evaluates the percentage of members who turned two years old during the measurement year, were continuously enrolled for 11 out of the 12 months preceding their second birthday, and received the immunizations on or before their second birthday for the 2006 measurement year.

HFP HEDIS Immunization Rates Compared to Medi-Cal Managed Care and Commerical Plan Rates

MRMIB receives annual quality reports from the HFP health plans. The plans' quality reports include HEDIS data that allows MRMIB to monitor plan performance and review the effectiveness of plan quality improvement strategies. MRMIB requires all plans to have their HEDIS collection and reporting processes audited by a NCQA-certified auditor. These audits ensure that the data are reliable and accurate.

Table 1 on the following page contains the 2006 HEDIS rates for HFP and commercial⁴ health plans, and the 2005 HEDIS rates for Medi-Cal Managed Care (MMC)⁵ that are based on members age two years who received Immunization Combination #2.

⁴ California Cooperative Healthcare Reporting Initiative (CCHRI) reports the rates for a variety of HEDIS measures for commercial HMOs in California. The HEDIS Immunization Combination #2 is just one of the measures reported. See this web site: <http://www.cchri.org/about/index.asp> for more information.

⁵ The Medi-Cal Managed Care Division of Department of Health Care Services contracts with 20 managed care plans in 22 California counties. Each plan must report certain HEDIS measures including the Immunization Combo #2.

Table 1. 2006 Immunization Combination #2 Rates⁶

Plan	2006 HFP	2005 Medi-Cal Managed Care*	2006 Commercial**
Alameda Alliance for Health	82%	76%	-
Anthem Blue Cross EPO	62%	-	-
Anthem Blue Cross HMO	66%	75%^	83%*
Blue Shield of California EPO	16%	-	-
Blue Shield of California HMO	73%	-	81%
CalOptima Kids	91%	86%	-
Care 1 st Health Plan	82%	-	-
CenCal Health	91%	85%	-
Central Coast Alliance for Health	92%	87%	-
Community Health Group	87%	79%	-
Community Health Plan	72%	-	-
Contra Costa Health Plan	91%	79%	-
Health Net of California***	87%	73%^	84%
Health Plan of San Joaquin	72%	72%	-
Health Plan of San Mateo	85%	79%	-
Inland Empire Health Plan	85%	70%	-
Kaiser Permanente	90%	78%^	85%
Kern Family Health Care	90%	77%	-
L.A. Care Health Plan	NM	-	-
Molina Healthcare of California	79%	-	-
San Francisco Health Plan	94%	77%	-
Santa Clara Family Health Plan	87%	87%	-
Ventura County Health Care Plan	NM	-	-

* Medi-Cal Managed Care: 2005 is the most recent year for which Medi-Cal HEDIS data is available. Comparisons between HFP and Medi-Cal Managed Care are not possible for some plans because Medi-Cal Managed Care plans report data by county.

** Commercial plans: HEDIS rates are only available for four plans that participate both in the commercial market and HFP.

*** Combined rate for Health Net HMO & EPO.

^ Average rate for Anthem Blue Cross Medi-Cal Managed Care plans in nine California counties.

^^ Average rate for Health Net Medi-Cal Managed Care plans in eight California counties.

^^^ Average rate for Kaiser Permanente Medi-Cal Managed Care plans in two California counties.

NM = Not Meaningful; not enough data to report this plan's rates.

* 2006 rates reported – rotation measure; used 2005 rates per California Cooperative Healthcare Reporting Initiative (CCHRI).

⁶ Sources: HFP 2006 HEDIS, 2006 Medi-Cal Managed Care HEDIS Report and 2007 California Cooperative Healthcare Reporting Initiative (CCHRI) Report.

Observations on the Immunization Combination #2 comparison between the HFP, Medi-Cal Managed Care and commercial plans:

- HFP plan immunization rates range from 16% up to 94%. Blue Shield of CA EPO reported the lowest rate in this measure with only 16% receiving all six vaccinations. However, Blue Shield of CA EPO reports that 72% of HFP eligible children received at least two of the six vaccinations. Anthem Blue Cross HMO and EPO reported the next lowest rates; however 87% of HFP eligible children enrolled in these plans received at least two of the six vaccinations. Seven plans reported rates at 90% or higher with San Francisco Health Plan reporting the highest rate of 94%. Seven other HFP plans reported rates above 80%.
- Rates of immunizations are higher for HFP members than for Medi-Cal members in ten out of twelve plans. Two plans, Health Plan of San Joaquin and Santa Clara Family Health Plan, reported the same immunization rates in HFP and Medi-Cal Managed Care (72% and 87% respectively).
- Compared to commercial members, HFP members are immunized at higher rates in two out of four plans.
- With a couple of exceptions, local plans and Kaiser Permanente reported higher immunization rates than the other statewide or multi-county plans.

Overall, for those plans where comparisons were possible, children enrolled in the HFP generally are immunized at rates which exceed the commercial and Medi-Cal Managed Care immunization rates. As described in the previous charts, possible reasons for this may include the plans' focus on children and the systems the plans have in place to inform its providers and educate members on the importance of immunization as a component of good health. Recognizing that some parents will choose not to immunize their children, MRMIB should consider setting a benchmark for immunization rates at 95% and publicly recognize those plans that meet it, and/or that make significant improvement in their immunization rate.

How HFP Distributes Immunization Information

In addition to plan efforts to educate HFP members regarding immunization, MRMIB distributes information on immunization to HFP members. HFP members receive an Immunization Schedule and Preventive Health Screening Guide in their welcome packet (See Attachments 2 and 3). The immunization schedule is updated annually to be consistent with the most current version of the Recommended Childhood Immunization Schedule/United States adopted by the ACIP. The Preventive Health Screening Guide lists the basic recommendations for preventive pediatric health care that include regular checkups, tests, and immunizations recommended by the American Academy of

Pediatrics (AAP)⁷. The Preventive Health Screening Guide is updated to be consistent with the most current Recommendations for Preventative Pediatric Health Care, as adopted by the AAP. Both of these documents are available on the HFP web site, www.healthyfamilies.ca.gov.

Recommendations

- Establish a goal for immunization rates at 95% and publicly recognize those plans that reach it.
- Work with the lowest scoring plans – Blue Shield EPO, Anthem Blue Cross EPO and HMO to develop a plan to improve their immunization rates.
- Encourage plans to submit immunization data to the California State Immunization Information System (SIIS)⁸ for immunization tracking purposes. This system allows health care providers access to immunization records in order to improve the areas of missed or duplicate immunizations.

Conclusion

MRMIB encourages every child enrolled in the Healthy Families Program (HFP) to receive all ACIP recommended immunizations. MRMIB monitors the provision of immunization by collecting HEDIS rates on immunization measures from all HFP plans. MRMIB will continue to work with the health plans to ensure their providers are working with parents who are concerned about the health of their children and the steps that they can take to protect them from illnesses and death caused by infectious diseases. MRMIB's collaboration with different stakeholders, such as other state departments, health plans and advocates, can reduce the burden of infectious diseases and other serious illness through the appropriate immunizations of children.

⁷ American Academy of Pediatrics (AAP) is an organization of 60,000 pediatricians committed to the attainment of optimal physical, mental, and social health and well-being for all infants, children, adolescents, and young adults.

⁸ The California State Immunization Information System (SIIS) is a collaboration of immunization registries involving local health departments, California Department of Public Health (CDPH) Immunization Branch, and stakeholders across the state.

Immunization Resources

- CDPH Immunization Branch -
<http://www.dhs.ca.gov/ps/dcdc/izgroup/shared/news.htm>
- CDPH Immunization Information for Health Professionals -
<http://www.dhs.ca.gov/ps/dcdc/izgroup/providers/default.htm>
- California immunization registry law, Chapter 329, Statutes of 2006 (AB 576), as amended, signed into law September 19, 2006 and effective January 1, 2007
http://ca-siis.org/images/docs/ab_576_bill_20060919_chaptered.html
- California Performance Review 2004, HHS-16: Implementing a Statewide Immunization Registry
<http://cpr.ca.gov/report/cpr rpt/issrec/hhs/hhs16.htm#1b#1b>
- Hospital Influenza Law
http://www.dhs.ca.gov/ps/dcdc/izgroup/shared/hospital_influenza_law.htm
- Thimerosal (Mercury) Law
http://www.dhs.ca.gov/ps/dcdc/izgroup/shared/mercury_law.htm
- ACIP Recommendations
<http://www.cdc.gov/vaccines/pubs/ACIP-list.htm>

HFP Health Plan Enrollment and Service Areas

Health Plan Name	Enrollment*	Service Areas
Alameda Alliance for Health	7,821	Alameda
Anthem Blue Cross EPO, formally known as Blue Cross of California EPO	197,810	All counties
Anthem Blue Cross HMO, formally known as Blue Cross of California HMO	131,197	Alameda, Contra Costa, Fresno, Kern, Los Angeles, Riverside, Sacramento, San Bernardino, San Diego, San Francisco, Santa Clara, Stanislaus
Blue Shield of California EPO	7,953	Butte, Calaveras, Del Norte, Glenn, Humboldt, Imperial, Kings, Lake, Madera, Mendocino, Merced, Orange, Riverside, San Benito, San Diego, San Luis Obispo, Shasta, Stanislaus, Tehama, Tuolumne, Yuba
Blue Shield of California HMO	34,406	Alameda, El Dorado, Los Angeles, Marin, Nevada, Orange, Placer, Riverside, Sacramento, San Bernardino, San Francisco, San Joaquin, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, Tulare, Ventura, Yolo
CalOptima Kids	32,481	Orange
Care 1 st Health Plan	10,033	Los Angeles
CenCal Health, formally known as Santa Barbara Regional Health Authority	2,358	San Luis Obispo, Santa Barbara
Central Coast Alliance for Health	3,243	Monterey, Santa Cruz
Community Health Group	25,019	Riverside, San Diego
Community Health Plan	19,698	Los Angeles
Contra Costa Health Plan	3,499	Contra Costa
Health Net of California HMO	115,795	Alameda, Contra Costa, El Dorado, Fresno, Kern, Kings, Los Angeles, Madera, Marin, Merced, Napa, Nevada, Orange, Placer, Riverside, Sacramento, San Bernardino, San Diego, San Francisco, San Joaquin, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, Stanislaus, Tulare, Ventura, Yolo
Health Net Life EPO	855	Amador, Butte, Colusa, Glenn, Humboldt, Imperial, Lake, Mariposa, Mendocino, Plumas, San Luis Obispo, Sierra, Sutter, Tehama, Yuba
Health Plan of San Joaquin	9,795	Merced, San Joaquin, Stanislaus
Health Plan of San Mateo	3,504	San Mateo
Inland Empire Health Plan	48,335	Riverside, San Bernardino
Kaiser Permanente North and South	116,806	Alameda, Amador, Contra Costa, El Dorado, Fresno, Kern, Kings, Los Angeles, Madera, Marin, Napa, Orange, Placer, Riverside, Sacramento, San Bernardino, San Diego, San Francisco, San Joaquin, San Mateo, Santa Clara, Solano, Sonoma, Yolo
Kern Family Health Care	12,023	Kern
L.A. Care Health Plan	3,589	Los Angeles
Molina Healthcare of California	34,979	Kern, Los Angeles, Riverside, San Bernardino, San Diego
San Francisco Health Plan	6,177	San Francisco
Santa Clara Family Health Plan	15,058	Santa Clara
Ventura County Health Care Plan	3,196	Ventura

* Enrolled members as of February 4th, 2008.

2008 RECOMMENDED IMMUNIZATION SCHEDULE

Persons Aged 0-18 Years

ASK YOUR DOCTOR ABOUT THESE PREVENTIVE SERVICES

The following immunization schedule is based on the Recommended Childhood and Adolescent Immunization Schedule for 2008 approved by the Advisory Committee on Immunization Practices (ACIP), the American Academy of Pediatrics (AAP), and the American Academy of Family Physicians (AAFP). Your doctor may require additional immunizations to meet your child's individual health care needs.

Age ?	Birth	1 month	2 months	4 months	6 months	12 months	15 months	18 months	19-23 months	2-3 years	4-6 years	7-10 years	11-12 years	13-18 years
Vaccine ?														
Hepatitis B (HepB)	HepB	HepB			HepB									
Rotavirus (Rota)			Rota	Rota	Rota									
Diphtheria, Tetanus, Pertussis (DTaP)			DTaP	DTaP	DTaP		DTaP				DTaP			
Haemophilus Influenzae type b (Hib)			Hib	Hib	Hib	Hib								
Pneumococcal (PCV)/(PPV) ₁			PCV	PCV	PCV	PCV				PPV				
Inactivated Poliovirus (IPV)			IPV			IPV					IPV			
Influenza ₂						Influenza (Yearly)					Influenza (Yearly)			
Measles, Mumps, Rubella (MMR)						MMR					MMR			
Varicella						Varicella					Varicella			
Hepatitis A (HepA)						HepA				HepA				
Meningococcal (MCV4)											MCV4		MCV4	
Tetanus, Diphtheria, Pertussis (Tdap)													Tdap	
Human Papillomavirus (HPV)													HPV	

 Range of Recommended Ages
 Certain High-Risks Groups

- 1. Pneumococcal (PCV)/(PPV)** - Minimum age: 6 weeks for pneumococcal conjugate vaccine (PCV); 2 years for pneumococcal polysaccharide vaccine (PPV).
- 2. Influenza** - Administer annually to children aged 6–59 months. Administer annually to children 5 years of age and older with certain risk factors.

For those who fall behind or start late, click on the link below for the catch-up immunization schedule.

http://www.cdc.gov/vaccines/recs/schedules/downloads/child/2008/08_catch-up_schedule_pr.pdf

2008 PREVENTIVE HEALTH SCREENINGS FOR CHILDREN

ASK YOUR DOCTOR ABOUT THESE PREVENTIVE SERVICES

Preventive health care services can help your children increase their chances of living a longer and healthier life. Basic recommendations for preventive pediatric health care include regular checkups, tests, and immunizations. The following chart provides guidelines for you to help ensure that your child receives the correct health care services.

METHOD	RECOMMENDED AGES
HEALTH AND WELLNESS EDUCATION	
Provider guidance in areas of injury and illness prevention, nutrition, oral health, social competence, school performance, sexuality, responsibility, parent interaction, family relationships, and community interaction.	<ul style="list-style-type: none"> Prenatal through age 21 years
HEALTH HISTORY	
Initial/Interval	<ul style="list-style-type: none"> Prenatal through age 21 years
EXAMS	
Physical Examinations	<ul style="list-style-type: none"> Newborn through age 21 years
Oral Health	<ul style="list-style-type: none"> Ages 6, 9, 12, 18, 24, and 30 months* Ages 12, 18, 24, 30 months; 3 and 6 years
MEASUREMENTS	
Length/height and weight	<ul style="list-style-type: none"> Newborn through age 21 years
Head circumference	<ul style="list-style-type: none"> Newborn through age 24 months
Weight for length (growth chart)	<ul style="list-style-type: none"> Newborn through age 18 months
Body mass index (BMI) for weight education	<ul style="list-style-type: none"> Ages 24 months to age 21 years
Blood pressure	<ul style="list-style-type: none"> Newborn through age 30 months* Ages 3 through 21 years
SENSORY SCREENING	
Vision	<ul style="list-style-type: none"> Newborn through age 30 months; 7, 9, 11, 13, 14, 16, 17, and 19-21 years* Ages 3-6, 8, 10, 12, 15, and 18 years
Hearing	<ul style="list-style-type: none"> Ages 3-5 days through 30 months; 3, 7, 9, and 11 through 21 years* Newborn, ages 4, 5, 6, 8, and 10 years
DEVELOPMENTAL/BEHAVIORAL ASSESSMENTS	
Developmental screening	<ul style="list-style-type: none"> Ages 9, 18, and 30 months
Autism screening	<ul style="list-style-type: none"> Ages 18 and 24 months
Developmental surveillance	<ul style="list-style-type: none"> Newborn through age 6 months; 12, 15, 24 months and ages 3-21 years
Psychosocial/behavioral assessment	<ul style="list-style-type: none"> Newborn through age 21 years
Alcohol and drug use assessment	<ul style="list-style-type: none"> Ages 11 through 21 years*
PROCEDURES	
Newborn metabolic/hemoglobin screening	<ul style="list-style-type: none"> Once between newborn to age 2 months
Immunizations	<ul style="list-style-type: none"> Newborn through age 21 years
Hematocrit or hemoglobin (blood tests)	<ul style="list-style-type: none"> Ages 4, 18, 24 months; 3-21 years* Age 12 months
Lead screening	<ul style="list-style-type: none"> Ages 6, 9, 12, 18, 24, and 30 months; 3-6 years* Ages 12 and 24 months
Tuberculin test	<ul style="list-style-type: none"> Ages 1, 6, 12, 18, and 24 months; 3 through 21 years*
Dyslipidemia (cholesterol) screening	<ul style="list-style-type: none"> Ages 24 months; 4, 6, 8, 10 through 17 years, and once between 18 to 21 years*
STI (Sexually Transmitted Infections)/STD screening	<ul style="list-style-type: none"> Ages 11 through 21 years*
Cervical dysplasia screening (Pelvic Exams)	<ul style="list-style-type: none"> Ages 11 through 21 years*

*Risk assessment to be performed with appropriate action to follow if positive